

Institute Pasteur (Tuberculist) (<http://genolist.pasteur.fr/Tuberculist/>), M. leprae BLAST searches at Institute Pasteur (Leproma) (<http://genolist.pasteur.fr/Leproma/>), M. Paratuberculosis BLASTN at Microbial Genome Project, University of Minnesota (<http://www.cbc.umn.edu/ResearchProjects/Ptb/> and (<http://www.cbc.umn.edu/ResearchProjects/AGAC/MptbAMptbhome.html>), various BLAST searches at the National Center for Biotechnology Information-USA (<http://ncbi.nlm.nih.gov/BLAST/>) and various BLAST searches at GenomeNet(Bioinformatics Center-Institute for Chemical Research) (<http://blast.genome.ad.jp/>).

AN 7-27-09  
Please replace the Paragraph on page <sup>18</sup>20 starting on line <sup>20</sup>1 with the following paragraph rewritten in amendment format:

The pharmaceutical compositions of this invention are used for the ~~treatmentment~~ treatment or prophylaxis of a mammal against challenge by *Mycobacterium tuberculosis* or *Mycobacterium bovis*. The pharmaceutical compositions of this invention are also used to treat patients having degenerative diseases, disorders or abnormal physical states such as cancer.